

whose recording capacity is doubled by laminating information layers to record/reproduce information signals has been proposed (U. S. Patent No. 5,726,969). Also, a DVD (digital versatile disc)-ROM disk with two information layers has been put into practical use as a read-only optical disk. Moreover, a multilayer recording medium that can be recorded in the user's environment also has been proposed. Such a recording medium is formed of a phase changeable material, a magnet-optical recording material, a dye material, or the like.

Please replace the paragraph beginning at page 19, line 29 with the following:

As a result, it is possible to perform demodulation that compensates for the amplitude fluctuation of the second information layer 4, corresponding to the sector address portion 9 of the first information layer 2. The slice level switching circuit 49 switches the slice level quickly, and S1 and S2 maintain the value in the range of "H" and "L" of the gate signal, respectively. This allows each slice level to follow the fluctuation in the recording medium.

Please replace the paragraph beginning at page 21, line 14 with the following:

FIG. 8(c) shows an example of the power switching signal 71s when recording is performed with the light modulated between two power levels P_p and P_b . For the sector address portion 13 of the second information layer 4, the reproduction power is taken as P_r . When a signal is recorded on the second information layer 4 through the data portion of the first information layer 2, the information layer is irradiated with the light modulated between P_{p2} and P_{b2} . When a signal is recorded on the data portion of the second information layer 4 through the sector address portion 9 of the first information